

Patent
Attorney Docket: 491,920-029
(prev 263/103)

IN THE CLAIMS:

Claim 1 (Currently Amended) A sheet-like material for implantation in a body comprising:

a sheet of material ePTFE having a first surface and a second surface,

the first surface being non-textured, and

the second surface being textured, the second surface having:

a plurality of continuous, parallel channels extending into the

thickness dimension of the sheet and

a plurality of ridges disposed between the channels.

~~having ridges and valleys, characterized in that the sheet-like material is separated from and unattached to structures other than said body.~~

Claim 2 (Cancelled)

Claim 3 (Currently Amended) The sheet-like material of claim 1 wherein the ridges and channels valleys of the second surface form nested geometric structures.

Claim 4 (Currently Amended) The sheet-like material of claim 3 wherein the nested geometric structures comprise nested hexagons.

Claims 5-8 (Cancelled)

Claims 9-12 (Cancelled)

Claim 13 (Currently Amended) An implantable sheet-like material comprising:
a sheet of flexible ePTFE material having first and second surfaces,

Patent
Attorney Docket: 491,920-029
(prev 263/103)

the first surface being less-textured than the second surface,

the second surface being textured and having:

a plurality of elongated, continuous channels extending into the

thickness dimension of the sheet and

a plurality of continuous ridges disposed between the channels.

~~first and second planar surfaces, the first and second planar surfaces being in non-coplanar relation
characterized in that the sheet-like material is separated from and unattached to the body.~~

Claim 14 (Currently Amended). The ~~sheet-like material~~ of claim 13 further comprising ePTFE material.

Claims 15-93 (Withdrawn)

Claim 94 (Currently Amended) The ~~sheet-like material~~ of claim 1 wherein the ridges and troughs on the second side of the sheet valleys have a plurality of regions of varying heights, the tallest regions ~~having a substantially planar~~ defining a first plane, upper surface, the planar surface ~~defining a first plane,~~ and the lowest regions defining a second plane, where the second plane is non-coplanar with the first plane.

Claim 95 (Currently Amended) The ~~sheet-like material~~ of claim 1 wherein the second surface comprises a pattern.

Claim 96 (Currently Amended) The ~~sheet-like material~~ of claim 95 wherein the pattern is periodic ~~predictable~~.

Patent
Attorney Docket: 491,920-029
(prev 263/103)

Claim 97 (Currently Amended) The ~~sheet-like material~~ of claim 95 wherein the pattern is repetitive.

Claim 98 (Currently Amended) The ~~sheet-like material~~ of claim 95 wherein the pattern is uniform.

Claim 99 (Currently Amended) The ~~sheet-like material~~ of claim 95 wherein the surface includes a plurality of hexcels.

Claim 100 (Cancelled)

Claim 101 (Currently Amended) The ~~sheet-like material~~ of claim 95 wherein the pattern includes geometric patterns.

Claim 102 (Currently Amended) The ~~sheet-like material~~ of claim 101 wherein the geometric pattern includes squares.

Claim 103 (Currently Amended) The ~~sheet-like material~~ of claim 101 wherein the geometric pattern includes circular patterns.

Claim 104 (Currently Amended) The ~~sheet-like material~~ of claim 1 wherein the lateral widths of the ridges and troughs differ ~~ridge regions and the valley regions differ.~~

Claim 105 (Currently Amended) The ~~sheet-like material~~ of claim 1 wherein the lateral width of the ridge regions is less than the width of the trough ~~valley~~ regions.

Claim 106 (Currently Amended) The ~~sheet-like material~~ of claim 1 wherein the channels extend into the sheet by at least 10% of the thickness of the sheet. ~~ridges and valleys~~

Patent
Attorney Docket: 491,920-029
(prev 263/103)

~~include planar regions and the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 90% or less.~~

Claim 107 (Currently Amended) The sheet-like material of claim 106 wherein the channels extend into the sheet by at least 20% of the thickness of the sheet. ~~ridges and valleys include planar regions and the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 80% or less.~~

Claim 108 (Currently Amended) The sheet-like material of claim 106 wherein the channels extend into the sheet by at least 30% of the thickness of the sheet. ~~ridges and valleys include planar regions and the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 70% or less.~~

Claim 109 (Currently Amended) The sheet-like material of claim 106 wherein the channels extend into the sheet by at least 50% of the thickness of the sheet. ~~ridges and valleys include planar regions and the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 50% or less.~~

Claim 110 (Currently Amended) The sheet-like material of claim 1 wherein the sheet-like material is a laminated structure.

Claim 111 (Cancelled)

Claim 112 (Currently Amended) The sheet-like material of claim 1 wherein the top surface plane of the ridge regions is substantially parallel to the surface plane of the trough valley regions.

Patent
Attorney Docket: 491,920-029
(prev 263/103)

Claim 113 (Currently Amended) The ~~sheet-like material~~ of claim 1 wherein the second surface is arranged to stimulate high tissue ingrowth.

Claim 114 (Currently Amended) The ~~sheet-like material~~ of claim 1 wherein the second surface is arranged to disorganize scar tissue.

Claim 115 (Cancelled)

Claim 116 (Currently Amended) The ~~sheet-like material~~ of claim 1 further including a device for implantation in the body, wherein the sheet-like material is disposed adjacent the device.

Claim 117 (Currently Amended) The ~~sheet-like material~~ of claim 116 wherein the second surface is oriented away from the device.

Claim 118 (Currently Amended) The ~~sheet-like material~~ of claim 116 wherein the second surface is oriented toward from the device.

Claim 119 (Currently Amended) The ~~sheet-like material~~ of claim 116 wherein the device is a prosthetic device.

Claim 120 (Currently Amended) The ~~sheet-like material~~ of claim 119 wherein the prosthetic device is an implant.

Claim 121 (Currently Amended) The ~~sheet-like material~~ of claim 119 wherein the implant is a gel filled implant.

Patent
Attorney Docket: 491,920-029
(prev 263/103)

Claim 122 (Currently Amended) The sheet-like material of claim 95 wherein the pattern includes a plurality of parallel wells.

Claim 123 (Currently Amended) The sheet-like material of claim 94 wherein the troughs extend into the sheet by at least 7% of the thickness of the sheet, second plane is lower than the first plane by at least 7% of the thickness of the structure.

Claim 124 (Currently Amended) The sheet-like material of claim 94 wherein the troughs extend into the sheet by at least 17% of the thickness of the sheet, second plane is lower than the first plane by at least 17% of the thickness of the structure.

Claim 125 (Currently Amended) The sheet-like material of claim 94 wherein the troughs extend into the sheet by at least 27% of the thickness of the sheet, second plane is lower than the first plane by at least 27% of the thickness of the structure.

Claim 126 (Currently Amended) The sheet-like material of claim 94 wherein the troughs extend into the sheet by at least 50% of the thickness of the sheet, second plane is lower than the first plane by at least 50% of the thickness of the structure.

Claim 127 (New) The sheet of claim 1 wherein the troughs are cuts.

Claim 128 (New) The sheet of claim 1 further including additional channels extending into the sheet which intersect the said elongated, continuous, parallel channels.

Claim 129 (New) The sheet of claim 128 wherein the channels are cuts.

Claim 130 (New) The sheet of claim 128 wherein the second surface comprises

Patent
Attorney Docket: 491,920-029
(prev 263/103)

individual villi of ePTFE.

Claim 131 (New) The sheet of claim 1 wherein the ridges extend continuously across the sheet.

Claim 132 (New) The sheet of claim 128 wherein the additional channels define additional ridges between the additional channels.

Claim 133 (New) The sheet of claim 13 wherein the troughs are cuts.

Claim 134 (New) The sheet of claim 13 further including additional channels extending into the sheet which intersect the said elongated, continuous, parallel channels.

Claim 135 (New) The sheet of claim 133 wherein the channels are cuts.

Claim 136 (New) The sheet of claim 132 wherein the second surface comprises individual villi of ePTFE.

Claim 137 (New) The sheet of claim 1 wherein the ridges extend continuously across the sheet.

Claim 138 (New) The sheet of claim 128 wherein the additional channels define additional ridges between the additional channels.

Claim 139 (New) The sheet of claim 1 wherein the ridges are planar.

Claim 140 (New) The sheet of claim 1 wherein the sheet further includes holes through the sheet.

Patent
Attorney Docket: 491,920-029
(prev 263/103)

- Claim 141 (New) The sheet of claim 13 wherein the channels are parallel.
- Claim 142 (New) The sheet of claim 1 wherein the ridges are parallel.
- Claim 143 (New) The sheet of claim 1 wherein the ridges are planar.
- Claim 144 (New) A sheet for implantation in a body comprising:
a sheet of ePTFE having a first surface and a second surface,
the second surface being textured, the second surface having:
a plurality of geometric patterns of channels extending into the
thickness dimension of the sheet and
ridges disposed between the channels.
- Claim 145 (New) The sheet of claim 144 wherein the geometric pattern comprises
hexcels.
- Claim 146 (New) The sheet of claim 145 wherein the hexcels are nested hexcels.
- Claim 147 (New) The sheet of claim 144 wherein the geometric pattern comprises
squares.
- Claim 148 (New) The sheet of claim 144 wherein the geometric pattern comprises lines.
- Claim 149 (New) The sheet of claim 148 wherein the lines are parallel lines.
- Claim 150 (New) The sheet of claim 144 wherein the first surface is non-textured.
- Claim 151 (New) The sheet of claim 144 wherein the first surface is textured.

Patent

Att mey Docket: 491,920-029
(prev 263/103)

Claim 152 (New) The sheet of claim 13 wherein the sheet further includes holes through the sheet.

Claim 153 (New) The sheet of claim 144 wherein the sheet further includes holes through the sheet.